

Shinya Narumi et al., S.N. 10/618,244  
Page 12

Dkt. 2271/69840  
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REMARKS

**SEP 22 2006**

The application has been reviewed in light of the Office Action dated June 23, 2006. Claims 1-27 were pending. By this Amendment, new claims 28 and 29 have been added. Accordingly, claims 1-29 are now pending, with claims 1, 13, 20 and 27 being in independent form.

Claims 1-2 and 5-27 were rejected under 35 U.S.C. § 103(a) as purportedly unpatentable over U.S. Patent No. 6,580,684 to Miyake in view of U.S. Patent No. 5,835,462 to Mimnagh. Claims 3 and 4 were rejected under 35 U.S.C. § 103(a) as purportedly unpatentable over Miyake in view of Mimnagh and further in view of U.S. Patent No. 5,740,149 to Iwasaki et al.

Applicant has carefully considered the Examiner's comments and the cited art, and respectfully submits that independent claims 1, 13, 20 and 27 are patentable over the cited art, for at least the following reasons.

This application relates to improvements to techniques for recording to an optical information recording medium wherein information regarding recording conditions for recording onto an optical information recording medium are preformatted on the optical information recording medium, to improve compatibility or matching between the recording medium and the recording apparatus. More specifically, recording conditional information, which includes parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of recording with each of the multipulse patterns, is pre-formatted on the optical information recording medium. Each of independent claims 1, 13, 20 and 27 addresses the above-mentioned features of this application, as well as additional features.

Miyake, as understood by Applicant, proposes an approach for optical disc recording

Shinya Narumi et al., S.N. 10/618,244  
Page 13

Dkt. 2271/69840

wherein physical characteristics information, such as information concerning the material, the disc type, the track pitch, the moment of inertia, and the size/configuration of the recording medium, is recorded as subcode on the recording medium. The physical characteristics information can also include information regarding the recommended linear velocity for recording information on the recording medium.

Miyake, as acknowledged in the Office Action, does not teach or suggest, however, that recording conditional information, which includes parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of recording with each of the multipulse patterns, is pre-formatted on the optical information recording medium, as provided by the subject matter of claim 1 of the present application.

Mimnagh does not cure the deficiencies of Miyake.

Mimnagh, as understood by Applicant, proposes an approach for optical disc recording to a Compact Disc Write Once or a CD erasable, wherein pursuant to the object of obtaining patterns on the tracks which have constant dimensions irrespective of the velocity at which they are recorded, velocity-related information indicative of the recording process related to a recording velocity is provided on the optical disc, and is utilized during recording for adapting the recording process to the recording velocity that must actually be used.

Mimnagh, column 4, lines 27-41, proposes that carrier information coded in a track 9 of the disc can include recording parameters and either a reference velocity or a range of recording velocities at which the recording parameters can be used.

Mimnagh, column 4, lines 56-64, which was cited in the Office Action, states as follows:

... In a fifth embodiment, in which the recording process is determined at a first recording velocity, the process information is included. This process information denotes that at certain recording velocities that deviate from the first recording velocity, a different recording process is to be used. *In this respect, there may be indicated, for example, that a preheating pulse or an entirely different series of pulses*

Shinya Narumi et al., S.N. 10/618,244  
Page 14

Dkt. 2271/69840

*is to be applied at a certain deviating recording velocity.*

Accordingly, Mimnagh proposes that the process information provided on the optical disc indicates that if a recording velocity deviating from the reference recording velocity is used, a different recording process can be applied, such as by utilizing a preheating pulse or an entirely different series of pulses.

However, contrary to the contention in the Office Action, Mimnagh, like Miyake, does not teach or suggest including in the recording conditional information pre-formatted on the optical recording medium different linear velocity ranges for each of the plurality of multi-pulse pattern.

Iwasaki, as understood by Applicant, proposes an approach for optical disc recording utilizing a PWM (pulse width modulation) recording system. Iwasaki was cited in the Office Action as proposing use of a multi-pulse pattern including a 1T pattern and a 2T pattern.

Applicant does not find disclosure or suggestion in the cited art, however, of an optical information recording medium wherein recording conditional information, which includes parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of recording with each of the multipulse patterns, is pre-formatted on the optical information recording medium, as provided by the subject matter of claim 1 of the present application.

Independent claims 13, 20 and 27 are patentably distinct from the cited art for at least similar reasons.

Accordingly, for at least the above-stated reasons, Applicant respectfully submits that independent claims 1, 13, 20 and 27, and the claims depending therefrom, are patentable over the cited art.

In view of the remarks hereinabove, Applicant submits that the application is now in condition for allowance. Accordingly, Applicant earnestly solicits the allowance of the

Shinya Narumi et al., S.N. 10/618,244  
Page 15

Dkt. 2271/69840  
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application.

**SEP 22 2006**

If a petition for an extension of time is required to make this response timely, this paper should be considered to be such a petition. The Patent Office is hereby authorized to charge any fees that may be required in connection with this amendment and to credit any overpayment to our Deposit Account No. 03-3125.

If a telephone interview could advance the prosecution of this application, the Examiner is respectfully requested to call the undersigned attorney.

Respectfully submitted,

  
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Paul Teng, Reg. No. 40,837  
Attorney for Applicant  
Cooper & Dunham LLP  
Tel.: (212) 278-0400